

**NEW APPLICATION****BEFORE THE ARIZONA CORPORATION COMMISSION****COMMISSIONERS**

ROBERT "BOB" BURNS - CHAIRMAN  
BOYD DUNN  
SANDRA D. KENNEDY  
JUSTIN OLSON  
LEA MÁRQUEZ PETERSON

IN THE MATTER OF THE APPLICATION OF ) DOCKET NO. E-01461A-19-  
TRICO ELECTRIC COOPERATIVE, INC., FOR )  
APPROVAL OF AN UPDATED AVOIDED )  
COST RATE FOR ITS NET METERING ) **APPLICATION**  
TARIFFS )

Trico Electric Cooperative, Inc. ("Trico") hereby submits revised Residential Solar Net Metering Tariff – Schedule NM and Net Metering Tariff – Schedule NMN for approval by the Arizona Corporation Commission ("Commission"). Trico proposes to update the Annual Average Avoided Cost rate, as defined in Trico's Schedule NM and Schedule NMN, from \$0.02737 per kWh to \$0.03019 per kWh, based on twelve (12) months of actual data from January through December of 2018. Clean and redlined versions of Trico's proposed revised Schedule NM and Schedule NMN, which show the adjusted rate, are attached as Attachment A.

In support of its Application, Trico provides the following information.

1. Trico is certificated to provide electric service as a public service corporation in the State of Arizona.

2. Pursuant to Trico's Rate Case Decision No. 75976 (February 24, 2017), Trico's Schedule NM was frozen, preventing any further customers to take service under Schedule NM after February 24, 2017. Decision No. 75976 also approved Trico's Schedule NMN to allow Non-Residential customers to continue to participate in Net Metering. Both schedules currently incorporate Trico's current Annual Average Avoided Cost rate that was approved in Decision No. 77047 (January 16, 2019).

1           4.       Trico's Schedules NM and NMN allow net metering customers to be compensated  
2 for generating excess energy from renewable resources, fuel cells, or qualifying Combined Heat  
3 and Power resources. If the customer's energy (kWh) production exceeds the energy supplied by  
4 Trico during a billing period, the excess energy is "banked" and used to offset the energy usage on  
5 the customer's bill for the subsequent billing periods. Under Trico's Schedules NM and NMN,  
6 excess kWh are allowed to be banked and rolled over in this manner to future billing periods for  
7 up to one year.

8           5.       Every year in the October bill (or in a customer's final bill upon discontinuance of  
9 service), Trico provides a monetary credit to the customer for any remaining excess kWh at an  
10 avoided cost rate that is set forth in Schedules NM and NMN. A.A.C. R14-2-2302(1) defines  
11 avoided cost as "the incremental costs to an Electric Utility for electric energy or capacity or both  
12 which, but for the purchase from the Net Metering facility, such utility would generate itself or  
13 purchase from another source."

14           6.       Trico's Schedules NM and NMN provide for the Annual Average Avoided Cost  
15 rate to be determined by the average wholesale fuel and energy cost per kWh charged by Trico's  
16 wholesale power suppliers during the calendar year.

17           7.       Trico's current Schedules NM and NMN incorporate an Annual Average Avoided  
18 Cost rate of \$0.02737 per kWh based on 12 months of actual data from January to December of  
19 2017, as approved in Decision No. 77047. Trico proposes that the Annual Average Avoided Cost  
20 rate be changed to \$0.03019 per kWh, which is based on 12 months of actual data from January to  
21 December of 2018, for both Schedules NM and NMN.

22           WHEREFORE, Trico requests that the Commission approve the revised Schedules NM  
23 and NMN to include the updated Annual Average Avoided Cost of \$0.03019 per kWh, effective  
24 as of March 1, 2020.  
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RESPECTFULLY SUBMITTED this 11<sup>th</sup> day of December, 2019.

Trico Electric Cooperative, Inc.

By 

Michael W. Patten  
SNELL & WILMER  
One Arizona Center  
400 East Van Buren Street, Suite 1900  
Phoenix, Arizona 85004

Attorneys for Trico Electric Cooperative, Inc.

efiled this 11<sup>th</sup> day of December, 2018, with:

Docket Control  
Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

By 

**Attachment A**

**CLEAN**



## **ELECTRIC RATES**

**Trico Electric Cooperative, Inc.**  
**8600 W. Tangerine Road**  
**Marana, Arizona 85658**  
**Filed By: Vincent Nitido**  
**Title: CEO/General Manager**

Effective Date: March 1, 2020

### **RESIDENTIAL SOLAR NET METERING TARIFF SCHEDULE NM (FROZEN)**

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#### **Availability**

Residential Net Metering service is available to all Residential Customers of Trico Electric Cooperative, Inc. (Cooperative) who have submitted an Interconnection Application for a qualifying Net Metering Facility prior to close of business on February 24, 2017. Qualifying Customers will remain on this tariff subject to the terms of the Residential Grandfathering Requirements.

Participation under this tariff is subject to availability of enhanced metering and billing system upgrades. Service under this tariff is available provided the rated capacity of the Customer's Net Metering Facility does not exceed the Cooperative's service capacity. The Customer shall comply with all of the Cooperative's interconnection standards. The Customer is also required to sign and complete a net metering application prior to being provided Net Metering Service.

#### **Residential Grandfathering Requirements**

The terms and conditions for the Residential Grandfathering Requirements are as follows:

1. Existing residential solar customers with systems interconnected to the Cooperative's distribution grid or residential solar customers that have submitted an Interconnection Application prior to close of business on February 24, 2017 and install their system within 6 months of the date that the Cooperative provides notice of approval of the Interconnection Application, and otherwise qualify for this tariff may continue service under this tariff as grandfathered Customers.
2. The Customer may remain on this tariff for 20 years from the Customer's initial interconnection date.
3. Customers may not move their solar generation unit to another site or increase the size of the solar generation unit.
4. Grandfathering on this tariff may be transferred to a new customer purchasing the home.
5. The Customer will be subject to all rates and charges, including adjustor rates, applicable to their Residential rate tariff.
6. A Customer may leave this tariff; however, the Customer may not subsequently return to the tariff at a later date.

**RESIDENTIAL SOLAR NET METERING TARIFF  
SCHEDULE NM (FROZEN)**

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**Metering**

Metering installed for the service provided under this tariff shall be capable of registering and accumulating the kilowatt-hours (kWh) of electricity flowing in both directions in a billing period.

**Monthly Billing**

If the kWh energy supplied by the Cooperative exceeds the kWh energy that is generated by the Customer's Net Metering Facility and delivered back to the Cooperative during the billing period, the Customer shall be billed for the net kWh energy supplied by the Cooperative in accordance with the rates and charges under the Customer's Standard Rate Schedule.

If the kWh energy generated by the Customer's Net Metering Facility and delivered back to the Cooperative exceeds the kWh energy supplied by the Cooperative in the billing period, the Customer shall be credited during subsequent billing periods for the excess kWh energy generated. The Cooperative shall apply the credit by using the excess kWh energy generated during the billing period to reduce the kWh energy supplied (not kW or kVA demand or Customer charges) and billed by the Cooperative during the subsequent billing periods.

Customers taking service under time-of-use rates who are to receive credit in a subsequent billing period for excess kWh energy generated shall receive such credit during the following billing periods during the on- or off- peak periods corresponding to the on- or off- peak periods in which the kWh energy were generated by the Customer.

Each Calendar Year, for the Customer bills produced in October (September usage) or in the last billing period that the Customer discontinues service under this tariff, the Cooperative shall issue a check or billing credit to Customers with Net Metering Facilities for the balance of any credit due in excess of amounts owed by the Customer to the Cooperative for Non-Firm Power. The payment for any remaining credits shall be at the Cooperative's Annual Average Avoided Cost. The Cooperative's Annual Average Avoided Cost shall be set at \$0.03019 per kWh. Any payment for Firm Power will be pursuant to a separate contract.

**Administrative Charge**

In order to determine accurate billing and usage, net metering Customers will need to have interval meter data available (minimum data collection of every half hour). This information is needed to ensure accurate billing and to calculate the net kWh energy billed or credited to the Customer's account. The following table shows the incremental costs for the increased data collection applicable to all rate classes.

<b>Administrative Charge</b>	<b>Monthly Rate</b>
Monthly Data Cost	\$3.38

**RESIDENTIAL SOLAR NET METERING TARIFF  
SCHEDULE NM (FROZEN)**

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**Definitions**

1. Annual Average Avoided Cost: Defined as the average annual wholesale fuel and energy costs per kWh energy purchased from the Cooperative's wholesale power supplier during the calendar year. The Cooperative's Annual Average Avoided Cost shall be set at \$0.03019 per kWh.
2. Calendar Year: The Calendar Year is defined as October 1 through September 30, for the purpose of determining the billing credit for the balance of any credit due in excess of amounts owed by the Customer to the Cooperative.
3. Renewable Resource: Pertains to a distributed residential solar facility, either interconnected to the Cooperative's distribution grid or with a submitted Interconnection Application prior to close of business on February 24, 2017.
4. Non-Firm Power: Electric power which is supplied by the Customer's generator at the Customer's option, where no firm guarantee is provided, and the power can be interrupted by the Customer at any time.
5. Firm Power: Electric power available from the Customer's facilities, upon demand, at all times with an expected or demonstrated reliability that is covered by a separate multiparty purchase agreement among the Customer, and the Cooperative.
6. Time Periods: Mountain Standard Time shall be used in the application of this rate schedule. On-peak and off-peak time periods will be determined by the applicable Standard Rate Schedule.
7. Standard Rate Schedule: Any of the Cooperative's retail rate schedules with metered kWh charges.
8. Net Metering Facility: A facility for the production of electricity that: operates by or on behalf of the Customer and is located on the Customer's premises; is intended primarily to provide part or all of the Customer's requirements for electricity; uses Renewable Resources (as defined herein); has a generating capacity less than or equal to 125% of the Customer's total connected load, or in the absence of Customer load data, capacity less than or equal to the Customer's electric service drop capacity; and is interconnected with and can operate in parallel and in phase with the Cooperative's existing distribution system.



## **ELECTRIC RATES**

**Trico Electric Cooperative, Inc.**  
**8600 W. Tangerine Road**  
**Marana, Arizona 85658**  
**Filed By: Vincent Nitido**  
**Title: CEO/General Manager**

Effective Date: March 1, 2020

### **NET METERING TARIFF SCHEDULE NMN**

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#### **Availability**

The Net Metering Tariff (NMN) is available to all Customers of Trico Electric Cooperative, Inc. (Cooperative) with a qualifying Net Metering Facility. Participation under this schedule is subject to availability of enhanced metering and billing system upgrades.

Service under this tariff is available provided the rated capacity of the Customer's Net Metering Facility does not exceed the Cooperative's service capacity. The Customer shall comply with all of the Cooperative's interconnection standards. The Customer is also required to sign and complete a net metering application prior to being provided Net Metering Service.

#### **Metering**

Metering installed for the service provided under this tariff shall be capable of registering and accumulating the kilowatt-hours (kWh) of electricity flowing in both directions in a billing period.

#### **Monthly Billing**

If the kWh energy supplied by the Cooperative exceeds the kWh energy that is generated by the Customer's Net Metering Facility and delivered back to the Cooperative during the billing period, the Customer shall be billed for the net kWh energy supplied by the Cooperative in accordance with the rates and charges under the Customer's Standard Rate Schedule.

If the kWh energy generated by the Customer's Net Metering Facility and delivered back to the Cooperative exceeds the kWh energy supplied by the Cooperative in the billing period, the Customer shall be credited during subsequent billing periods for the excess kWh energy generated. The Cooperative shall apply the credit by using the excess kWh energy generated during the billing period to reduce the kWh energy supplied (not kW or kVA demand or Customer charges) and billed by the Cooperative during the subsequent billing periods.

Customers taking service under time-of-use rates who are to receive credit in a subsequent billing period for excess kWh energy generated shall receive such credit during the following billing periods during the on- or off- peak periods corresponding to the on- or off- peak periods in which the kWh energy were generated by the Customer.



**NET METERING TARIFF  
SCHEDULE NMN**

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Each Calendar Year, for the Customer bills produced in October (September usage) or in the last billing period that the Customer discontinues service under this tariff, the Cooperative shall issue a check or billing credit to Customers with Net Metering Facilities for the balance of any credit due in excess of amounts owed by the Customer to the Cooperative for Non-Firm Power. The payment for any remaining credits shall be at the Cooperative's Annual Average Avoided Cost. The Cooperative's Annual Average Avoided Cost shall be set at \$0.03019 per kWh. Any payment for Firm Power will be pursuant to a separate contract.

**Administrative Charge**

In order to determine accurate billing and usage, net metering Customers will need to have interval meter data available (minimum data collection of every half hour). This information is needed to ensure accurate billing and to calculate the net kWh energy billed or credited to the Customer's account. The following table shows the incremental costs for the increased data collection applicable to all rate classes.

<b>Administrative Charge</b>	<b>Monthly Rate</b>
Monthly Data Cost	\$3.38

**Definitions**

1. **Annual Average Avoided Cost:** Defined as the average annual wholesale fuel and energy costs per kWh energy purchased from the Cooperative's wholesale power supplier during the calendar year. The Cooperative's Annual Average Avoided Cost shall be set at \$0.03019 per kWh.
2. **Calendar Year:** The Calendar Year is defined as October 1 through September 30, for the purpose of determining the billing credit for the balance of any credit due in excess of amounts owed by the Customer to the Cooperative.
3. **Renewable Resource:** Means natural resources that can be replenished by natural processes, including biomass, biogas, geothermal, hydroelectric, wind and non-residential solar.
4. **Combined Heat and Power or CHP:** Means a system that generates electricity and useful thermal energy in a single, integrated system such that the useful power output of the facility plus one-half the useful thermal energy output during any 12-month period must be no less than 42.5 percent of the total energy input of fuel to the facility (also known as cogeneration).
5. **Fuel Cell:** Means a device that converts the chemical energy of a fuel directly into electricity without intermediate combustion or thermal cycles. The source of the chemical reaction must be from Renewable Resources.

**NET METERING TARIFF  
SCHEDULE NMN**

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6. Non-Firm Power: Electric power which is supplied by the Customer's generator at the Customer's option, where no firm guarantee is provided, and the power can be interrupted by the Customer at any time.
7. Firm Power: Electric power available from the Customer's facilities, upon demand, at all times with an expected or demonstrated reliability that is covered by a separate multiparty purchase agreement among the Customer, and the Cooperative.
8. Time Periods: Mountain Standard Time shall be used in the application of this rate schedule. On-peak and off-peak time periods will be determined by the applicable Standard Rate Schedule.
9. Standard Rate Schedule: Any of the Cooperative's retail rate schedules with metered kWh charges.
10. Net Metering Facility: A facility for the production of electricity that: operates by or on behalf of the Customer and is located on the Customer's premises; is intended primarily to provide part or all of the Customer's requirements for electricity; uses Renewable Resources, a Fuel Cell or CHP (as defined herein); has a generating capacity less than or equal to 125% of the Customer's total connected load, or in the absence of Customer load data, capacity less than or equal to the Customer's electric service drop capacity; and is interconnected with and can operate in parallel and in phase with the Cooperative's existing distribution system.

**REDLINE**



## **ELECTRIC RATES**

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**8600 W. Tangerine Road**  
**Marana, Arizona 85658**  
**Filed By: Vincent Nitido**  
**Title: CEO/General Manager**

Effective Date: ~~January~~ March 1, 2019 ~~2020~~

### **RESIDENTIAL SOLAR NET METERING TARIFF SCHEDULE NM (FROZEN)**

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#### **Availability**

Residential Net Metering service is available to all Residential Customers of Trico Electric Cooperative, Inc. (Cooperative) who have submitted an Interconnection Application for a qualifying Net Metering Facility prior to close of business on February 24, 2017. Qualifying Customers will remain on this tariff subject to the terms of the Residential Grandfathering Requirements.

Participation under this tariff is subject to availability of enhanced metering and billing system upgrades. Service under this tariff is available provided the rated capacity of the Customer's Net Metering Facility does not exceed the Cooperative's service capacity. The Customer shall comply with all of the Cooperative's interconnection standards. The Customer is also required to sign and complete a net metering application prior to being provided Net Metering Service.

#### **Residential Grandfathering Requirements**

The terms and conditions for the Residential Grandfathering Requirements are as follows:

1. Existing residential solar customers with systems interconnected to the Cooperative's distribution grid or residential solar customers that have submitted an Interconnection Application prior to close of business on February 24, 2017 and install their system within 6 months of the date that the Cooperative provides notice of approval of the Interconnection Application, and otherwise qualify for this tariff may continue service under this tariff as grandfathered Customers.
2. The Customer may remain on this tariff for 20 years from the Customer's initial interconnection date.
3. Customers may not move their solar generation unit to another site or increase the size of the solar generation unit.
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5. The Customer will be subject to all rates and charges, including adjustor rates, applicable to their Residential rate tariff.
6. A Customer may leave this tariff; however, the Customer may not subsequently return to the tariff at a later date.

**RESIDENTIAL SOLAR NET METERING TARIFF  
SCHEDULE NM (FROZEN)**

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**Metering**

Metering installed for the service provided under this tariff shall be capable of registering and accumulating the kilowatt-hours (kWh) of electricity flowing in both directions in a billing period.

**Monthly Billing**

If the kWh energy supplied by the Cooperative exceeds the kWh energy that is generated by the Customer's Net Metering Facility and delivered back to the Cooperative during the billing period, the Customer shall be billed for the net kWh energy supplied by the Cooperative in accordance with the rates and charges under the Customer's Standard Rate Schedule.

If the kWh energy generated by the Customer's Net Metering Facility and delivered back to the Cooperative exceeds the kWh energy supplied by the Cooperative in the billing period, the Customer shall be credited during subsequent billing periods for the excess kWh energy generated. The Cooperative shall apply the credit by using the excess kWh energy generated during the billing period to reduce the kWh energy supplied (not kW or kVA demand or Customer charges) and billed by the Cooperative during the subsequent billing periods.

Customers taking service under time-of-use rates who are to receive credit in a subsequent billing period for excess kWh energy generated shall receive such credit during the following billing periods during the on- or off- peak periods corresponding to the on- or off- peak periods in which the kWh energy were generated by the Customer.

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**Administrative Charge**

In order to determine accurate billing and usage, net metering Customers will need to have interval meter data available (minimum data collection of every half hour). This information is needed to ensure accurate billing and to calculate the net kWh energy billed or credited to the Customer's account. The following table shows the incremental costs for the increased data collection applicable to all rate classes.

Administrative Charge	Monthly Rate
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**RESIDENTIAL SOLAR NET METERING TARIFF  
SCHEDULE NM (FROZEN)**

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6. Time Periods: Mountain Standard Time shall be used in the application of this rate schedule. On-peak and off-peak time periods will be determined by the applicable Standard Rate Schedule.
7. Standard Rate Schedule: Any of the Cooperative's retail rate schedules with metered kWh charges.
8. Net Metering Facility: A facility for the production of electricity that: operates by or on behalf of the Customer and is located on the Customer's premises; is intended primarily to provide part or all of the Customer's requirements for electricity; uses Renewable Resources (as defined herein); has a generating capacity less than or equal to 125% of the Customer's total connected load, or in the absence of Customer load data, capacity less than or equal to the Customer's electric service drop capacity; and is interconnected with and can operate in parallel and in phase with the Cooperative's existing distribution system.



## **ELECTRIC RATES**

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**Marana, Arizona 85658**  
**Filed By: Vincent Nitido**  
**Title: CEO/General Manager**

Effective Date: ~~January~~ March 1, 2019 ~~2020~~

### **NET METERING TARIFF SCHEDULE NMN**

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#### **Availability**

The Net Metering Tariff (NMN) is available to all Customers of Trico Electric Cooperative, Inc. (Cooperative) with a qualifying Net Metering Facility. Participation under this schedule is subject to availability of enhanced metering and billing system upgrades.

Service under this tariff is available provided the rated capacity of the Customer's Net Metering Facility does not exceed the Cooperative's service capacity. The Customer shall comply with all of the Cooperative's interconnection standards. The Customer is also required to sign and complete a net metering application prior to being provided Net Metering Service.

#### **Metering**

Metering installed for the service provided under this tariff shall be capable of registering and accumulating the kilowatt-hours (kWh) of electricity flowing in both directions in a billing period.

#### **Monthly Billing**

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**NET METERING TARIFF  
SCHEDULE NMN**

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4. Combined Heat and Power or CHP: Means a system that generates electricity and useful thermal energy in a single, integrated system such that the useful power output of the facility plus one-half the useful thermal energy output during any 12-month period must be no less than 42.5 percent of the total energy input of fuel to the facility (also known as cogeneration).
5. Fuel Cell: Means a device that converts the chemical energy of a fuel directly into electricity without intermediate combustion or thermal cycles. The source of the chemical reaction must be from Renewable Resources.

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